Energy Asset Accounts of the Philippines Coal

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Outline

About PSA

Coordinative Mechanism

Development of Physical Accounts for Coal

About PSA

The Philippine Statistics Authority (PSA)

In September 2013, the President approved Republic Act No. 10625 – An Act Reorganizing the Philippine Statistical System, which abolished the former BAS, BLES, NSCB and NSO, and established the Philippine Statistics Authority (PSA).

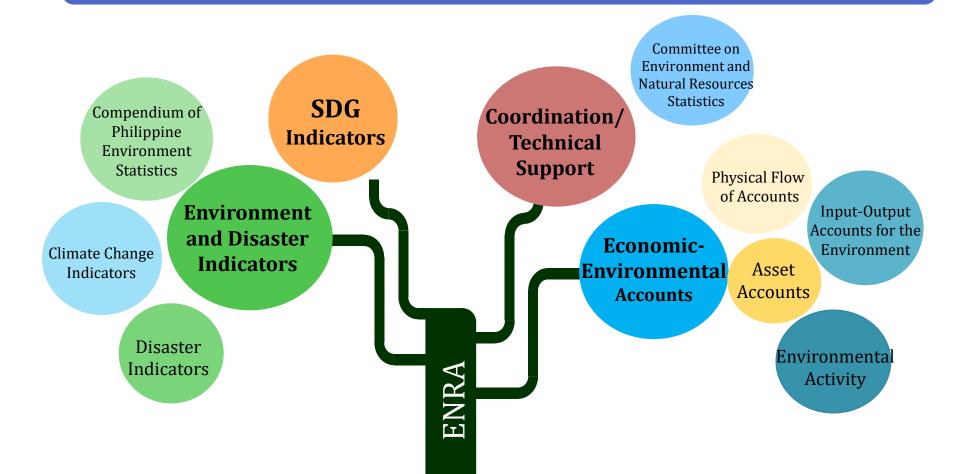
Implementing Rules and Regulations (IRR), approved on December 11, 2013 and took effect on December 29, 2013

Functions of the PSA

"Coordinate with government departments and local government units (LGUs) on the promotion and adoption of statistical standards"

About PSA

Environment and Natural Resources Accounts Division (ENRAD)



Coordinative Mechanism

Interagency
CommitteeEnvironment
and Natural
Resources
Statistics

venue for discussion and resolution of issues,

review current techniques/methodologies

recommend policies; and

workable schemes towards the improvement of environment and natural resources and other related statistics

Coordinative Mechanism

Serve as forum for discussion and resolution of concerns/problems and issues in the compilation, processing, and dissemination of energy resources statistics, accounts and other related indicators in terms of accuracy, completeness, timeliness, and relevance

Review and enhance the concepts, techniques, and methodologies used in the collection, processing, and reporting of energy resources statistics and accounts to ensure conformity with the prescribed statistical standards and classification system;

Technical
Working
Group on
Energy
Statistics

Recommend improvements in the methodology of compiling energy resources statistics and accounts and formulate measures to ensure that the data requirements of the same are being generated and addressed by all concerned agencies;

Prioritize outputs that will address the more urgent statistical requirements in the Philippine Statistical Development Program, including those required to monitor/measure accomplishment of relevant chapters of the Philippine Development Plan and its Result Matrix;

Provide data/information support in the development, generation, and maintenance of ENR frameworks, including identification of viable data sharing/exchange platform for various end-users.

Development of the Physical Accounts for Coal

Data Requested from DOE

	Data Needed	Description	Aggregations and Scales	Period Covered
1	Volume of discoveries	These refer to estimates of new resources that commonly arise through exploration and evaluation	-By mine per province or coal region	2000-2015
2	Volume of reserves reappraised	Reappraisals refer to the changes that arise due to reassessment of quality and size of the stock, and the economic viability of extraction (including changes due to development of extraction technology)	-By mine per province or coal region	2000-2015
3	Status of each mine	This pertains to the status of each mine site for each year in the accounting period, preferably. This is essential in the classification of the energy resources and could be indicated as any of the following: -under exploration -production ongoing -suspended/terminated by the government -ceased operations -affected/destroyed by catastrophes -undergoing rehabilitation/final decommissioning	-By mine per province or coal region	2000-2015
		-undergoing renabilitation/final decommissioning		8

Data on-hand

Data	Period Covered/as of Date
1) Coal reserves by coal region	as of 31 December 2013
2) Coal reserves by coal region	as of June 2016
3) Coal reserves by coal region	as of 31 December 2015
4) Coal reserves by mine	2000-present
5) Coal Production	2004-2015

Data/Information Needed	Availability	Recommended Action
Production data	Time series data available from Production Accounts Division	Ready for use in stock accounts
Volume of coal reserves	Data on proven, probable and in-situ reserves per coal region in 2013 and 2015 only are available	Compute for stocks in the following years using available reserves data and production data.
Volume of reappraised reserves	Not available	For follow-up
Volume of new discoveries	Data on start and end of activity, and current status of mine were given in one file (for Coal-Operating	To follow up data on small- scale mines
Status of mines	Contractors only)	

Data on-hand

Data	Period Covered/as of Date
1. Oil, Natural Gas and Condensate Reserves <u>by Basin</u>	As of 31 December 2015
2. Oil, Natural Gas and Condensate Production by Field	2004-2015

Framework

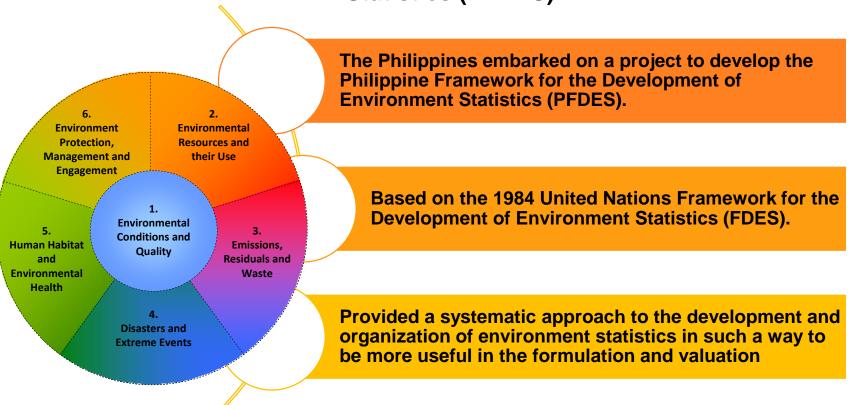
The framework used for the estimation of the physical accounts for energy resources is the UN System of Environmental-Economic Accounting 2012 Central Framework (SEEA-CF)

The SEEA-CF is aligned with the accounting structure of the System of National Accounts (SNA), and contains concepts, definitions and classifications that facilitate the integration of economic and environmental statistics.

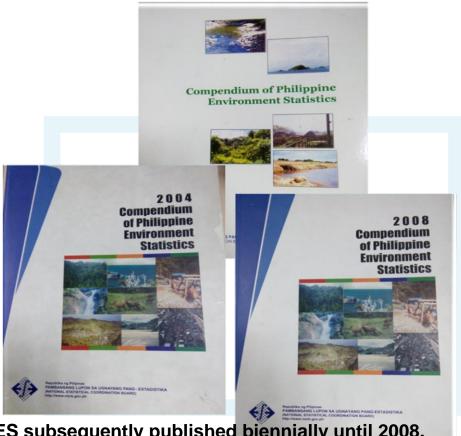


Development of Environment Statistics

Philippines Framework for the Development of Environment Statistics (PFDES)



Development of Environment Statistics



The Philippine came out with the first edition of the Compendium of the **Philippine Environment** Statistics (CPES) in 2000

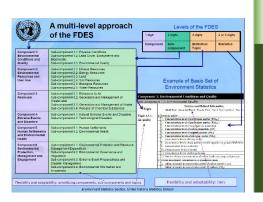
•The CPES subsequently published biennially until 2008.

Development of Environment Statistics

Framework for the Development of Environment Statistics (FDES) 2013

- Describes the scope and components of environment statistics; harmonizes data with common standards.
- UN Statistical Commission endorsed revised FDES (2013):
 - Recognizing its importance to 2030 Agenda for Sustainable Development
 - Adds core set of environment statistics & links to SEEA









Development of Environment Statistics

Environment Statistics

Environmental Conditions and Quality

Environmental Resources and Their Uses

Residuals

Extreme Events and Disasters

Human Settlements and Environmental Health

100

Tier 1
Statistics
(Core set)

200

Tier 2 statistics

158

Tier 3 statistics

Environnent protection, management and engagement

Primary Energy Sources

Environmental Resources and Their Uses

Data/Indicator Requires	Data Available	Source of Basic Data	Year
Nonrenewable energy resources	Energy Balance Table (in thousand tons of oil equivalent)	Department of Energy	2002 to 2013
BiodieselEthanol			

Power Generation by Sources

Environmental Resources and Their Uses				
Data/Indicator Requires	Data Available	Source of Basic Data	Year	
 Energy Source: Oil-Based Hydro Geothermal Coal Other renewable Natural Gas 	Power Generation by Source (in gigawatt- hour)	Department of Energy	2000 to 2013	

Generation of Establishment-Based Statistics: Philippines

Presented by:

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Executive Order No.352 – Designates statistical activities for adoption by the government

CPBI, ASPBI, QSPBI, MISSI and
 PPS are designated statistical activities which ensure the provision of budget

ESTABLISHMENT BASED SURVEYS

Annual Survey of Philippine Business and Industry (ASPBI) and Census of Philippine Business and Industry (CPBI)

one of the establishment based surveys where data on energy statistics is being generatedate

- data from establishment-based surveys are used in:
 - ✓ System of National Accounts (SNA)
 - ✓ Sustainable Development Goals (SDG 9)
 - ✓ generating MSME (micro, small and medium establishments/enterprises) data using total employment
 - ✓ gathers information to updating the characteristics of the list of establishments

- data from establishment-based surveys are used in:
 - ✓ Generating indicators for industries such as
 - Value added
 - Labor productivity
 - Average compensation
 - evaluating the performance of industries for national and regional development planning and monitoring
 - √ data enclave for researchers

The following activities are being adopted by ASPBI and CPBI:

- ➤ uses concepts and methodologies patterned after United Nation System of National Accounts and Organization for Economic Cooperation and Development (OECD)
- > provides Technical Notes or Explanatory Texts for every special release and publication to ease in understanding of data

uses classification standards

- ✓ Philippine Standards Industrial Classification which is aligned with ISIC Rev 4
- ✓ Philippine Standard Geographic Classification as of 31 December 2016

- √ Utilization of
 - Sampling Methodology
 - Questionnaire Design
 - Data Processing, Review and Tabulation

- Utilization of Sampling Methodology
- CPBI and ASPBI uses stratified systematic sampling design with 5-digit PSIC serving as industry strata and total employment as the second stratification variable

Utilizes Questionnaire Designs in all surveys

CPBI / ASPBI

Parallel with the Philippine accounting principles and Systems of National Accounts

7 types of self-administered and web – based sectoral questionnaires



Table 3.2 List of Data Items in the 2016 ASPBI Questionnaires ITEM NO. DESCRIPTION (Cover Page)

Name and Address of the Establishment and Its Reporting Unit

Control Panel for Establishment Characteristics (For PSA Use Only)

- 1 Business and Registered Name in 2013, Business Address, Company Website and Establishment Tax Identification Number (TIN)
- 2 Economic Activity or Business in 2013
- 3 Year Started Operation
- 4 Legal Organization in 2013
- 5 Economic Organization in 2016
- 6 Capital Participation as of December 31, 2016
- 7 Employment as of November 15, 2016
- 8 R&D Personnel as of November 15, 2016
- 9 Number of Production/Construction Workers as of November 15, 2016 (For ASPBI Forms 2, 3 and 4)
- 10 Total Hours Worked by Production/Construction Workers in 2016 (For ASPBI Forms 2, 3 and 4)
- 11 Income in 2016
- 12 Subsidies Received from the Government in 2016
- 13 Expense in 2016
- 14 Sales from E-commerce Transactions in 2016
- 15 Capital Expenditures, Sale and Book Value of Tangible Fixed Assets, inc Losses and Damages in 2016
- 16 Capital Expenditures for All Tangible Fixed Assets by Mode of Acquisition in 20136
- 17 Capital Expenditures and Book Value for Intangible Assets in 2016
- 18 Total Assets as of December 31, 2016
- 19 Average Capacity Utilization Rate of the Establishments in 2016 (For ASPBI Form 2 and 3)
- 20 Inventories in 2016
- 21 Branches, Divisions, Plants Owned and Controlled (for Main Office)

Data items collected from the surveys

Table 2.2 Scope and Coverage of the ASPBI 2009 PSIC SECTION

- A- Agriculture, Forestry, and Fishing
- **B** Mining and Quarrying
- **C**-Manufacturing
- **D** Eectricity, Gas, Steam, and Air Conditioning Supply
- **E** -Water Supply; Sewerage, Waste Management and Remediation Activities
- **F** -Construction

Table 2.2 Scope and Coverage of the ASPBI 2009 PSIC SECTION

- **G -** Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles
- **H** Transportation and Storage
- I Accommodation and Food Service Activities
- J Information and Communication
- **K** Financial and Insurance Activities
- L -Real Estate Activities
- M Professional, Scientific and Technical Activities
- **N** -Administrative and Support Service Activities

Table 2.2 Scope and Coverage of the ASPBI

- P Education
- Q Human Health and Social Work Activities
- R Arts, Entertainment, and Recreation
- **S** Other Service Activities

The following sections of the 2009 PSIC are excluded from the scope of this survey and all other establishment-based surveys of PSA:

- **O** -Public Administration and Defense; Compulsory Social Security
- **T -** Activities of Households as Employers; Undifferentiated Goods and Services Producing Activities of Households for Own Use
- **U** Activities of Extra-territorial Organization and Bodies

Data Processing, Review and Tabulation

Maintain of an Establishment Data Management System (EDMS)

With Modules ensuring that procedures and instructions in all processes are uniform

- ✓ Data Entry
- ✓ Data Validation
- ✓ Summary File Report
- √ Completeness Check
- √ Tabulation

Amount of time spent between data collection and release date

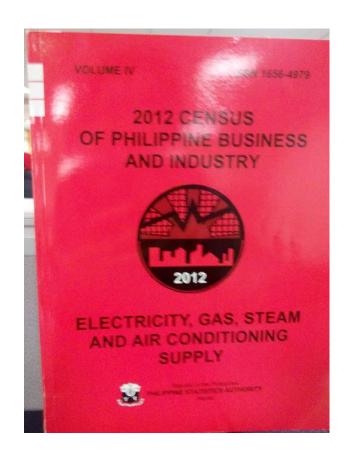
- ➤ Adherence to a System of Designated Statistics with specific release dates posted in the PSA website at the beginning of every year
- > Timetable of detailed activities are prepared as guide in all phases of operation
- ➤ Done during planning workshops alongside with other divisions and services of the Office

Collection and distribution of questionnaires to the sample establishments are done in the field offices

> E- copy publication



> Printed copy of publications



Thank you! Salamat Po!







